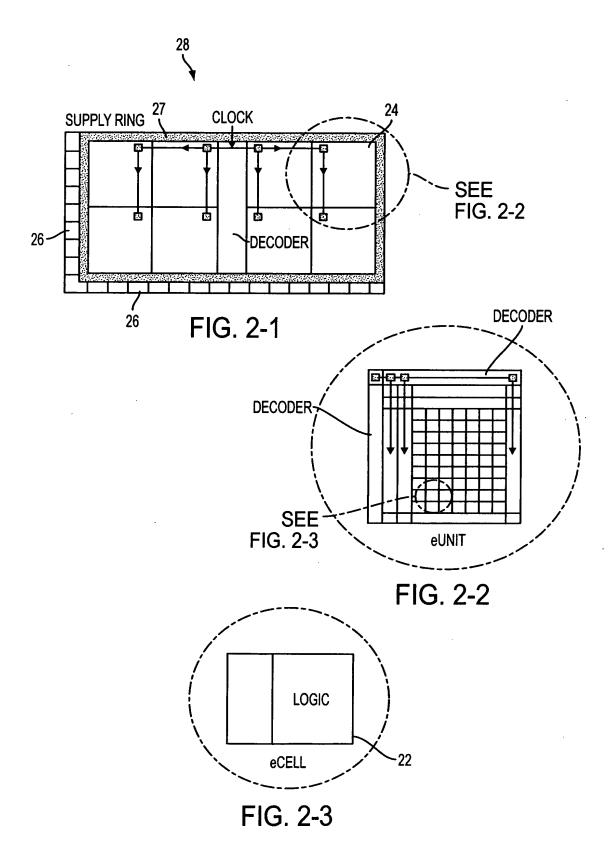


FIG. 1



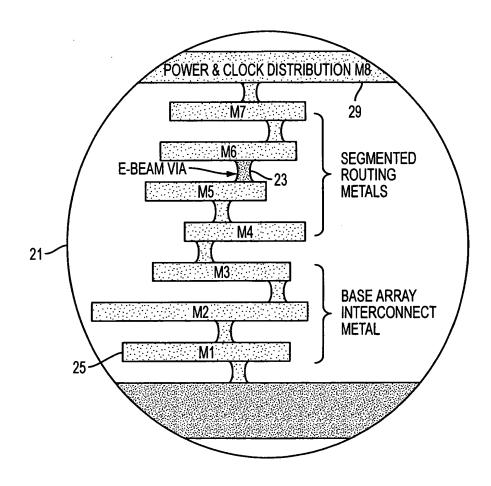


FIG. 2A

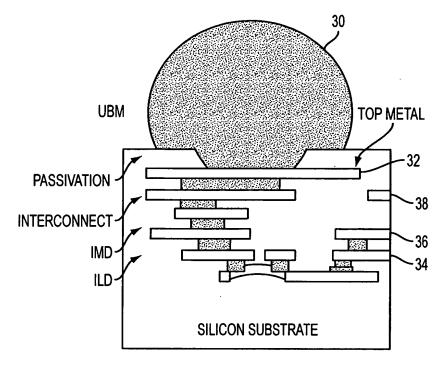


FIG. 3A

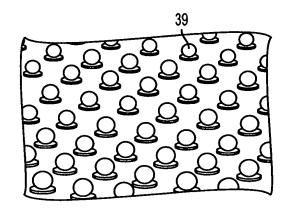


FIG. 3B

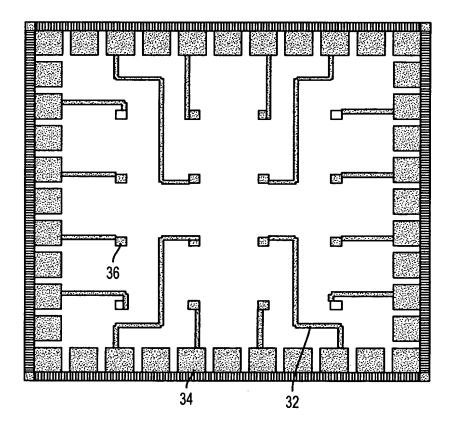


FIG. 3C

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В	BUMP DIAMETER	150μm ± 10μm (IN WAFER)	70μm ± 10μm (IN WAFER)
C	Cu BUMP HEIGHT	20μm ± 3μm (IN WAFER)	10μm ± 3μm (IN WAFER)
D	BUMP ROOT DIAMETER	90μm	60μm
E	PASSIVATION HOLE SIZE	70μm	40μm
F	BUMP PITCH	200μm	120μm

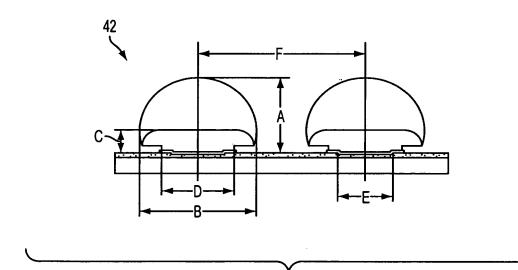


FIG. 4

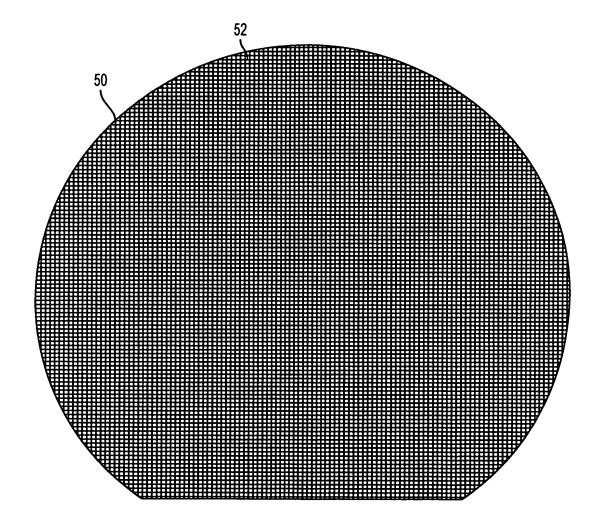


FIG. 5

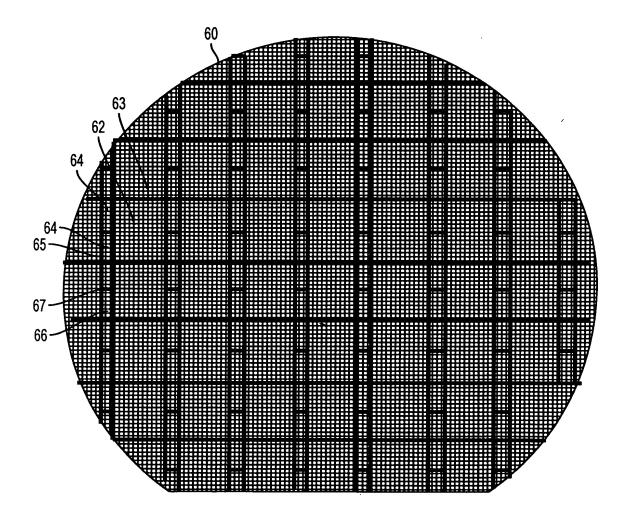


FIG. 6

70

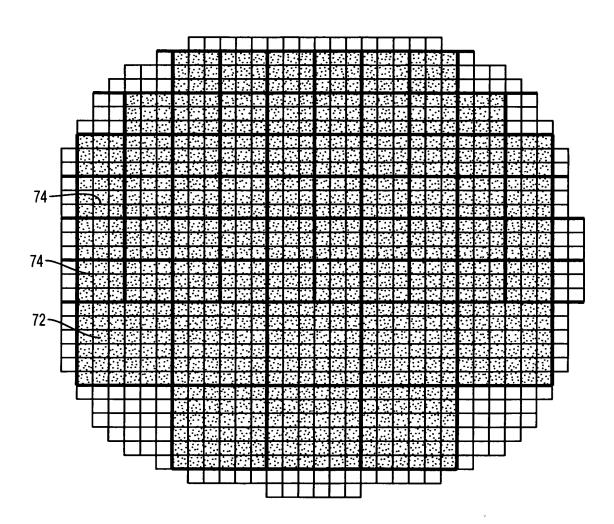


FIG. 7



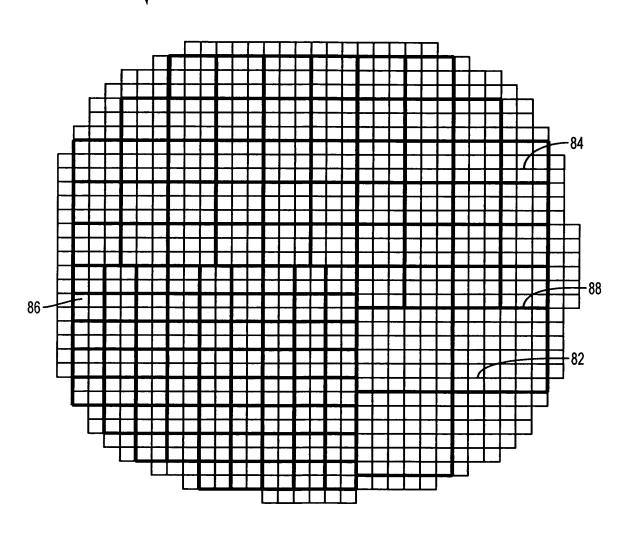
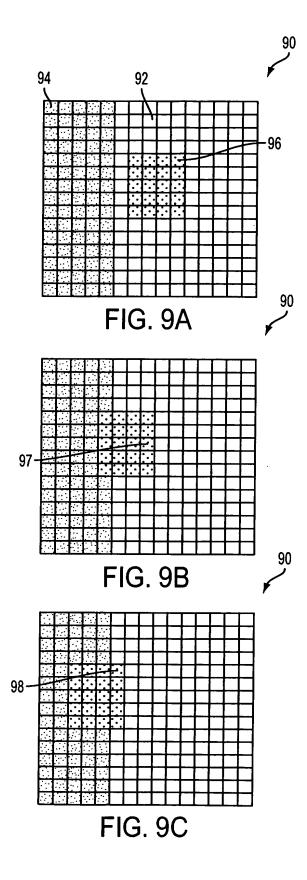


FIG. 8



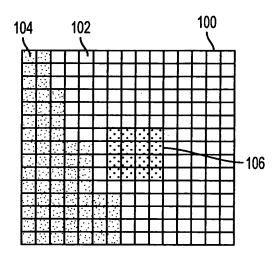


FIG. 10A

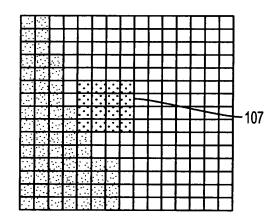


FIG. 10B

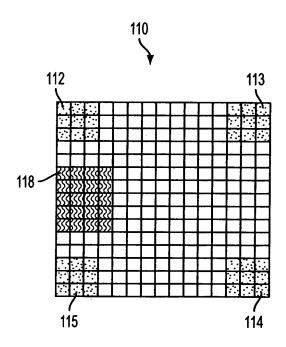


FIG. 11



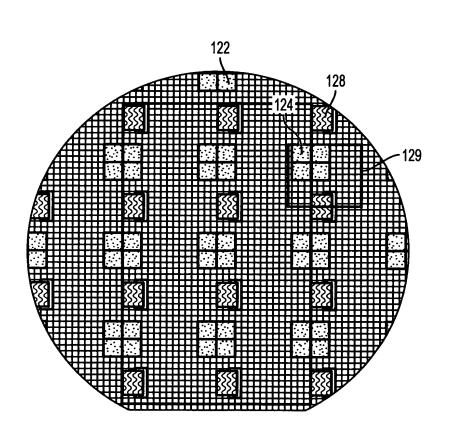


FIG. 12

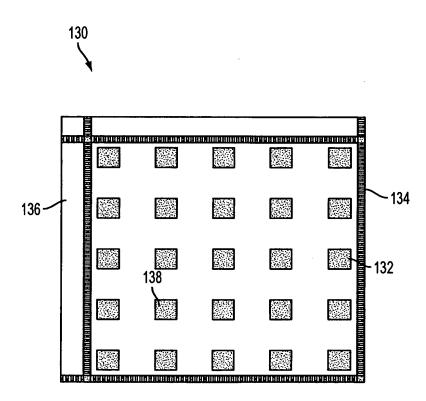


FIG. 13

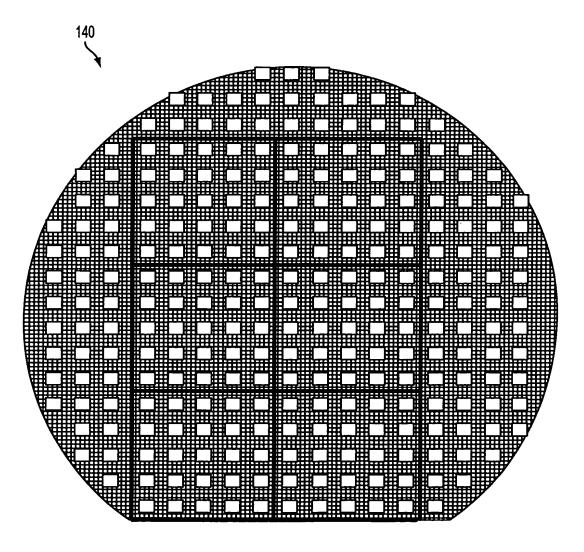
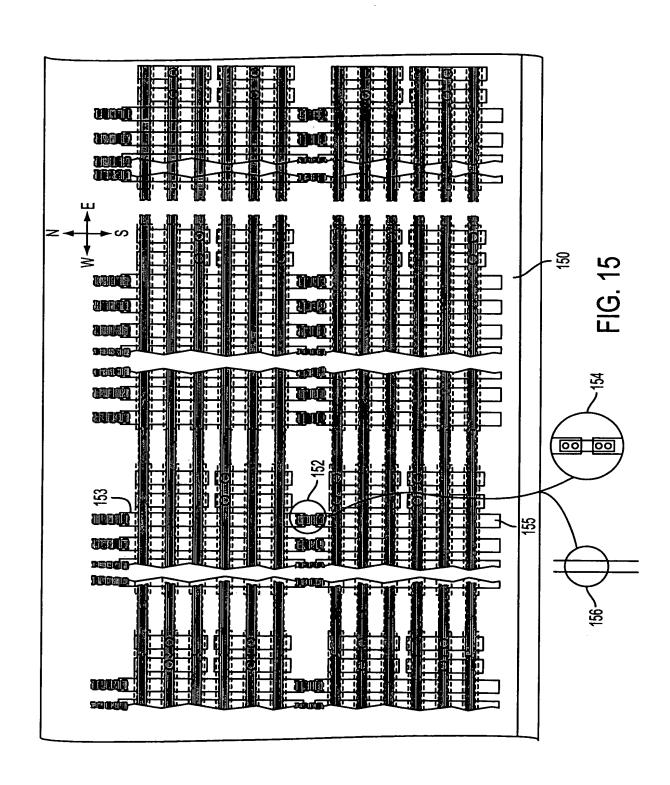
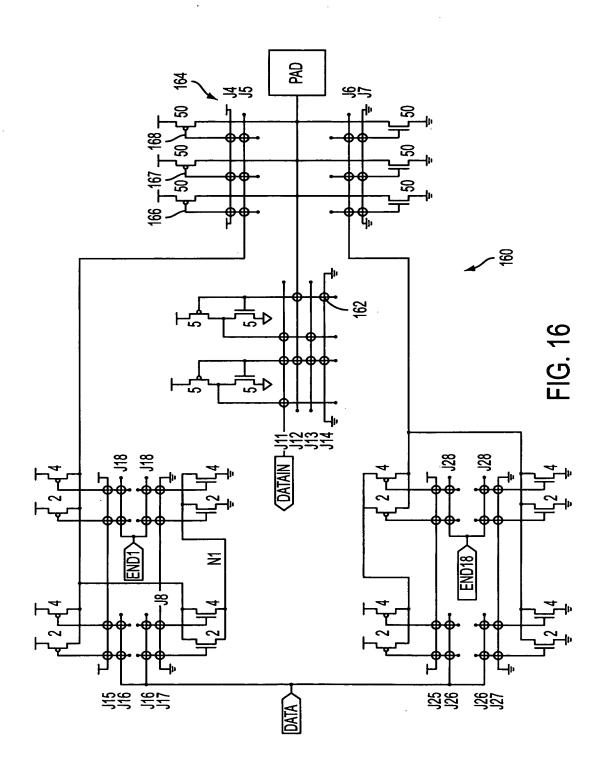
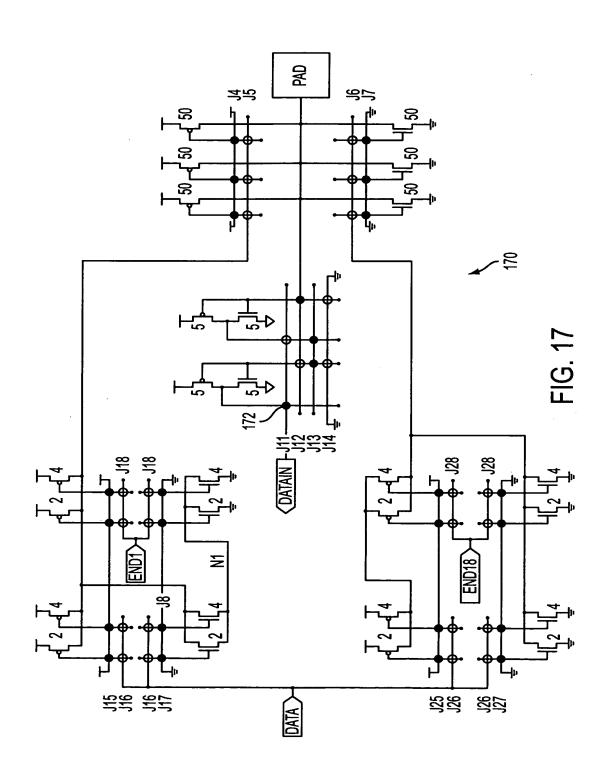
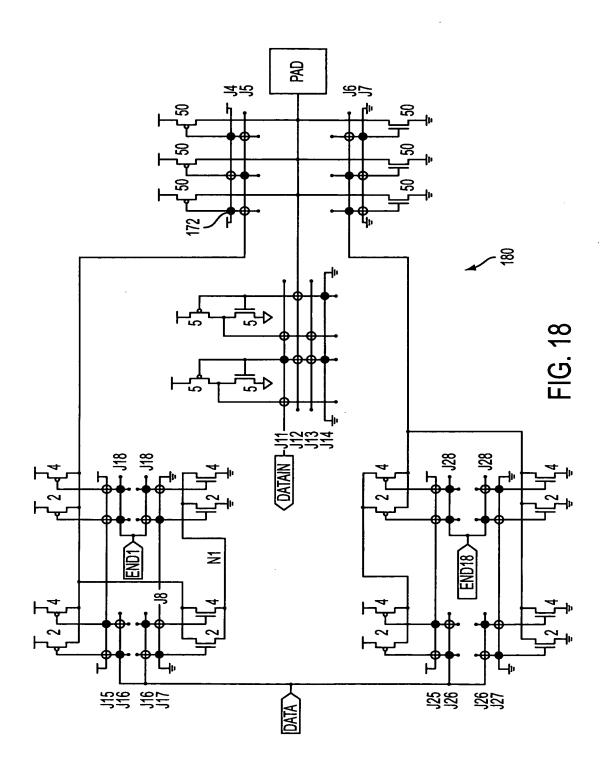


FIG. 14









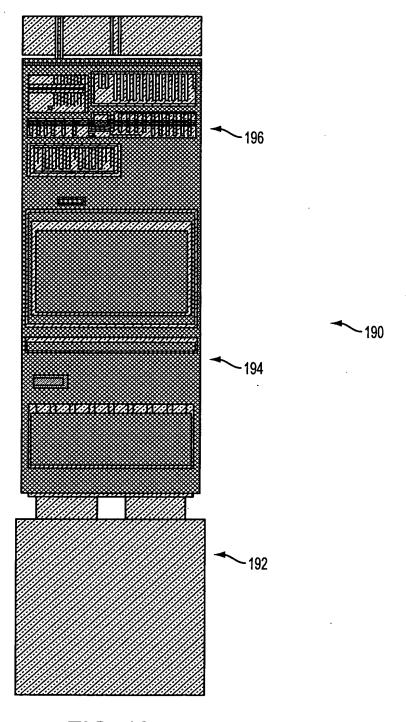


FIG. 19

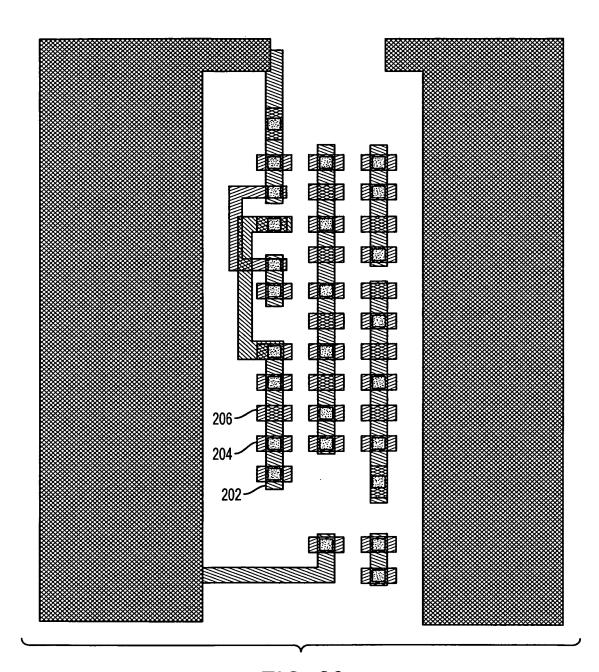
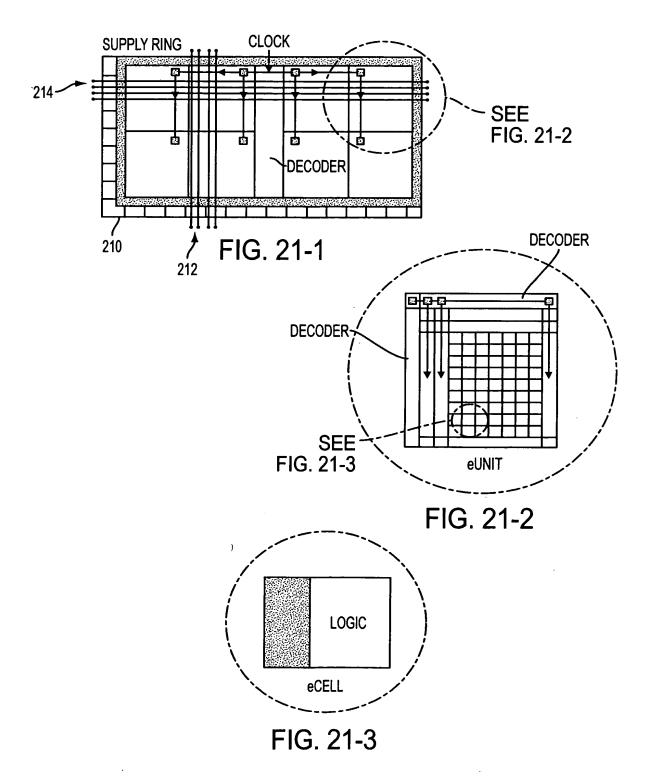


FIG. 20



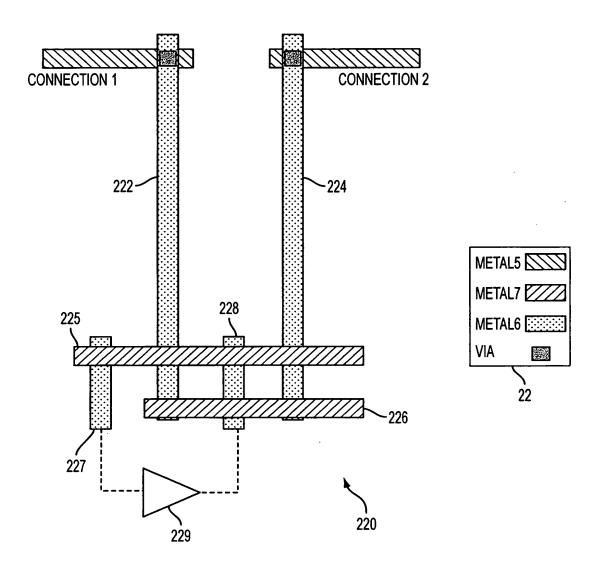


FIG. 22

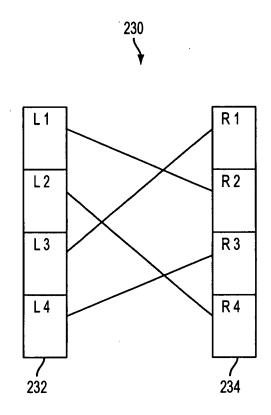


FIG. 23

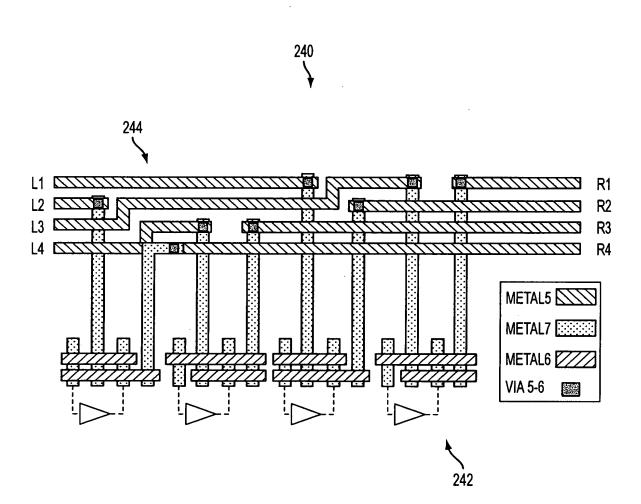
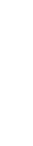


FIG. 24

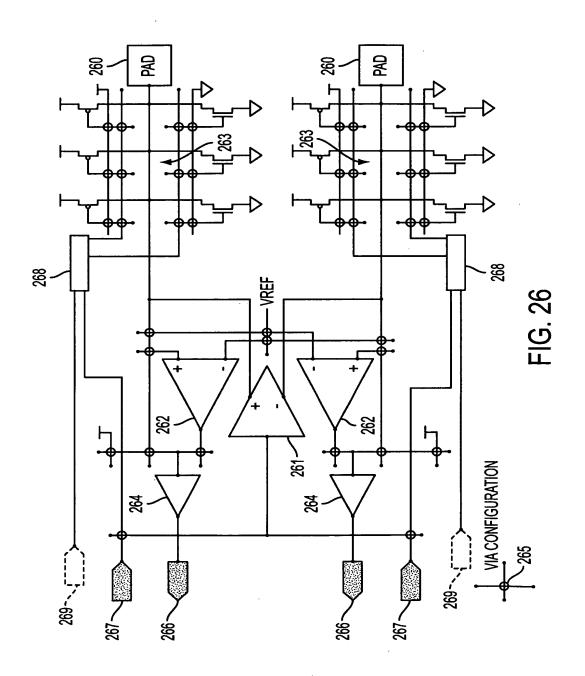
720

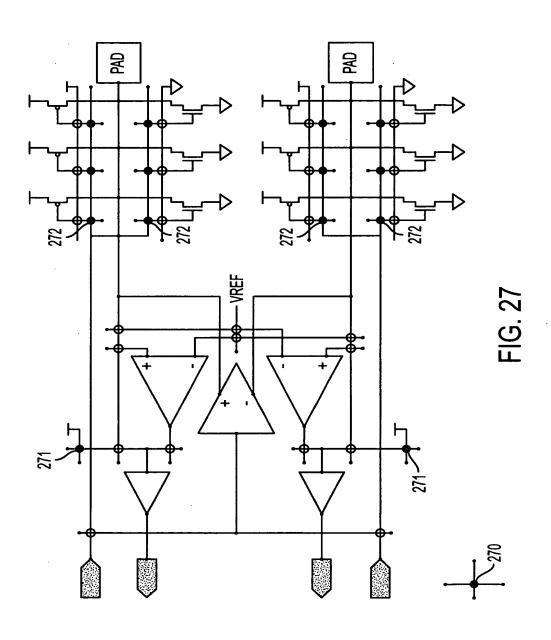


METAL5

METAL6

FIG. 25





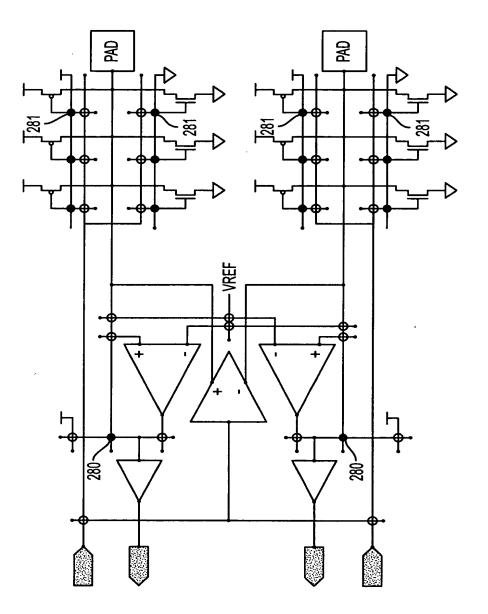
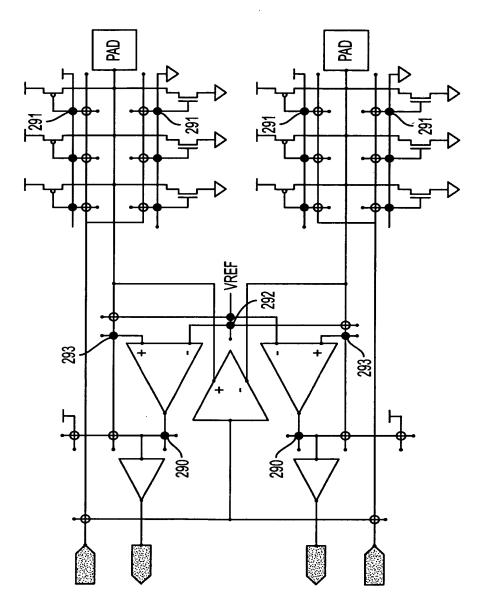


FIG. 28



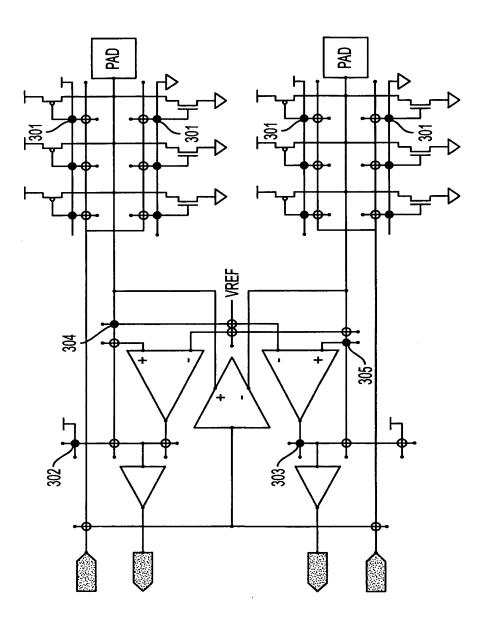


FIG. 30

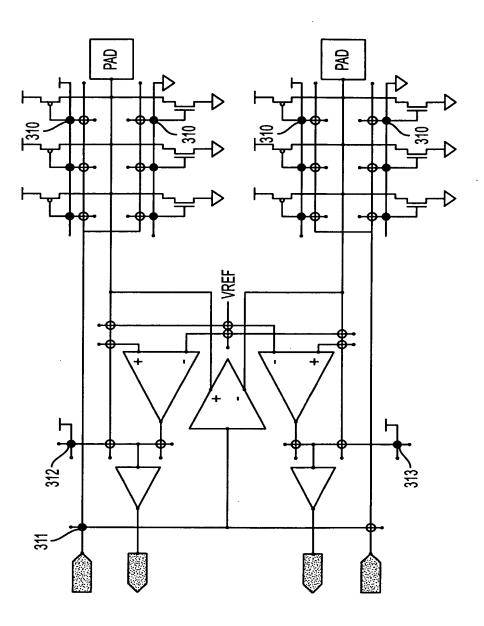


FIG. 31

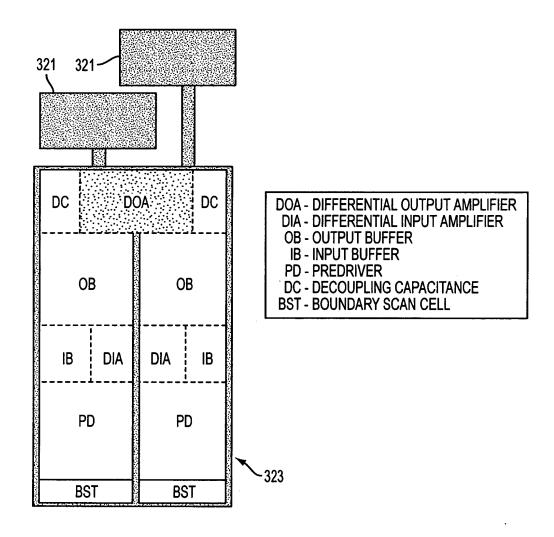


FIG. 32

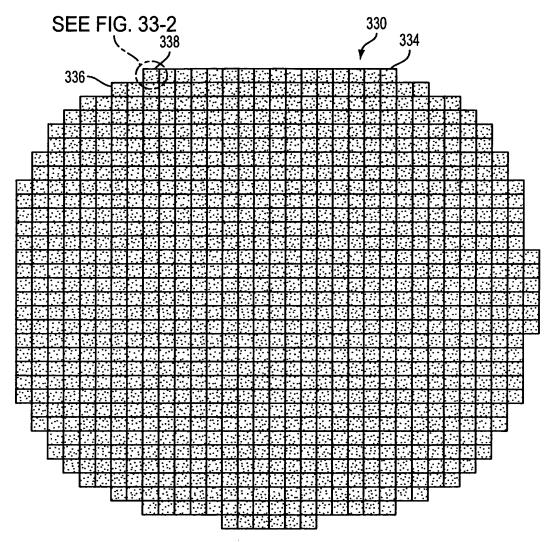


FIG. 33-1

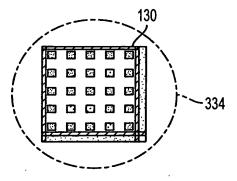


FIG. 33-2

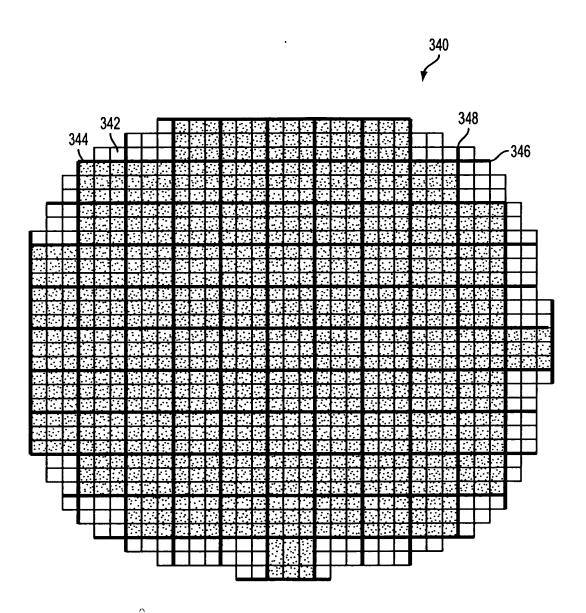


FIG. 34

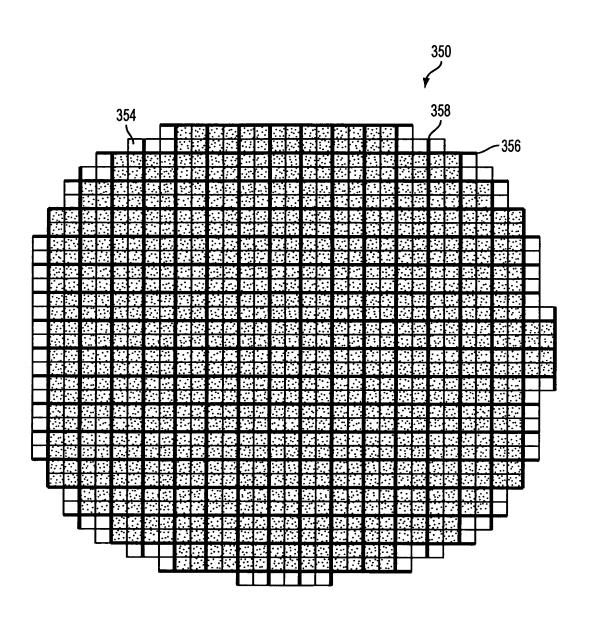


FIG. 35

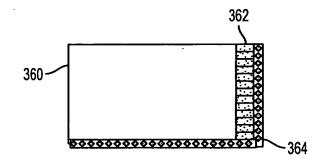


FIG. 36-A

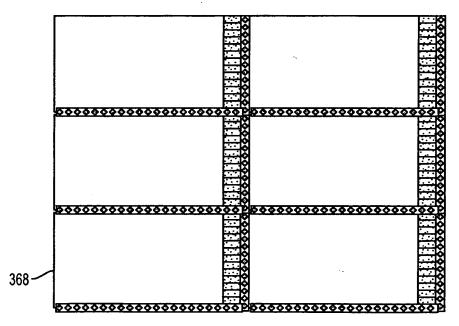


FIG. 36-B

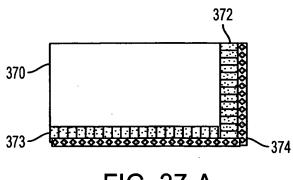


FIG. 37-A

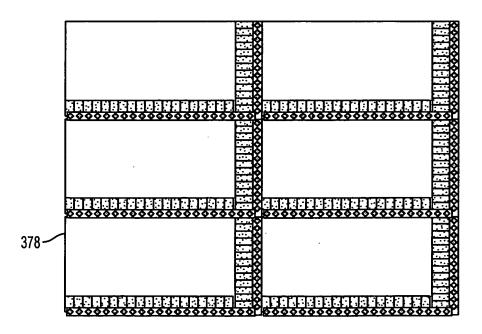
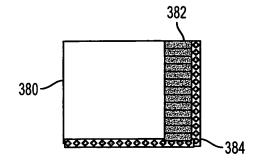


FIG. 37-B



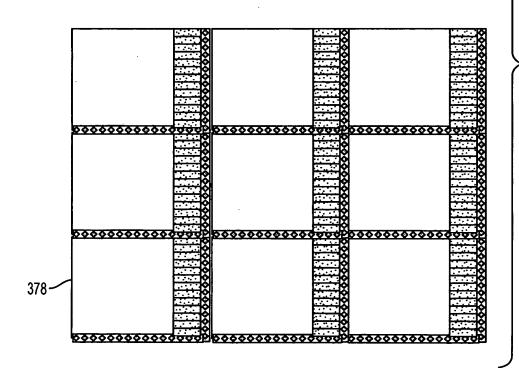


FIG. 38

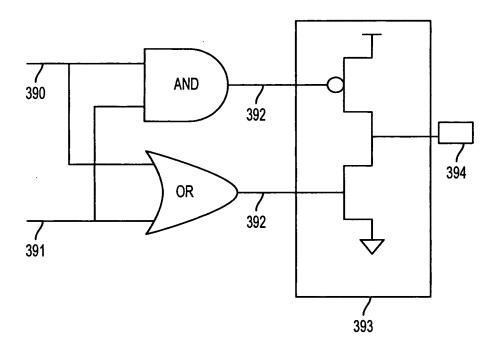


FIG. 39